roducts Identified Excepted 5 Commercial S. G. A. O. F. F. I.C. O. F. Firms Non 8

## LOG OF MEETING

THE SECRETARY 2000 MAR 15 A 11: 48

SUBJECT: Update on CPSC staff activities related to fire. PLACE: Phoenix Park Hotel

Washington, DC

**DATE:** March 8, 2000 DATE OF LOG ENTRY: March 10, 2000

LOG ENTRY SOURCE: William H. King, Jr., ES WUG

CPSC PARTICIPANT: William H. King, Jr., ES

NON-CPSC PARTICIPANTS: Don Bliss, National Assoc. of State Fire Marshals (NASFM) Margaret Simonson, Swedish National Testing & Research Institute James Hoebel, consultant Gordon Damant, Inter-City Testing & Consulting Corp. Francis McGarry, NASFM John Watts, Fire Safety Institute Gary Ter Haar, Albemarle Corp. Sandy Ruiter, Underwriters Laboratories Inc. (UL) and several other guests and members of the NASFM technical advisory committee. Gordon Gillerman, UL

#### SUMMARY:

Attached is the material presented by Mr. King at this meeting.

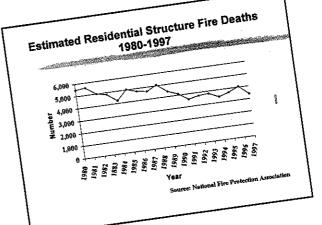
# U.S. Consumer Product Safety Commission



Update for the NASFM Technical Advisory Committee on Activities Related to Fire

March 8, 2000

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### Major CPSC Fire Activities

- Flammability
- Upholstered Furniture
- Appliance Enclosures
- Bedding/Mattresses
- 1 Children's Sleepwear
- 1 Apparel Std. Revisions
- Range Cooking Fires
- Arc Fault Circuit Interrupters (AFCI)
- Gas Water Heaters
- Multi-purpose Lighters
- 1 Candles
- Sprinklers
- Clothes Dryers
- Fixed Room Heaters
- Smoke Alarms

### UPHOLSTERED FURNITURE

#### Next Steps

- NAS Study Report Spring '00
- I CPSC Lab Studies (flammability/durability testing, I EPA/NIOSH Studies factors affecting small flame Ignition, UK chairs)
- FR Chemical Risk Assessment (toxicity reviews, exposure testing, dermal absorption study) Continue to work with ASTM (E5.15 work group)

- Regulatory & Environmental Analysis Recommend alternatives to Commission

# PLASTIC APPLIANCE ENCLOSURES

- Thousands of appliance fires reported each year 1 E.G., fans, nursery monitors, humidiflers, coffeemakers, telephone answering machines, irons, others
- Common scenario: Internal components fail, Igniting non-FR plastic enclosures.
  - UL standard 746C upgrade in process
    - V-rated enclosure materials (or equivalent) for all portable appliances that can operate unattended.
    - 1 5 year proposed effective date.
  - Next Steps
- Reduce Ignition of Internal components
  - I Glow-wire ignition test for connectors

#### BEDDING/MATTRESS OPEN FLAME FIRES

- >10,000 open flame fires, 130 deaths in 1996 l little change since early 1980s
- CPSC & NASFM/Industry investigations: bedclothes, child-play often involved, many child
- 1998 Chairman's Roundtable
- Industry/NIST research on bedding ignitions of
- NIST report 3/00; basis for possible open flame Industry-sponsored public education activities

### CHILDREN'S SLEEPWEAR

- Flammability std. amended 1996 to allow alternatives to address burn risk
- Sleepwear must be flame resistant,"tightfitting", or ≤ size 9 months
- Mandatory labeling for tight-fitting eff.
  - I hang tag/pkg. label: importance of snug fit
  - permanent label: "Wear snug-fitting, not flame resistant"

#### APPAREL REVISIONS

- Need to prohibit highly flammable fabrics
- 50-yr-old clothing textiles std.
- Many recent violations, recalls
- Problems with test procedure & interpretation of results
- CPSC staff to recommend amending std.

### COOKING RANGE FIRES

- 85,000 fires, 300 deaths in 1996
  - Number one consumer product cause of residential fires. 3/4 involved ignition of food.
- Goal prevent fires through advanced prefire detection technology
- Next Steps
- 1 Standards developers (UL & CSA Int'l) convening
  - CPSC contract with Energy Int'l, consulting firm developing gas burner technology, results due this

### ARC-FAULT CIRCUIT-INTERRUPTERS

- I New technology to address arcing faults
- Tested in 1997-98 to draft UL standard work
- I Introduced into the National Electrical Code this year for 2002 edition

#### GAS WATER HEATERS

- New standard going into effect beginning in Apr 2001 for most popular models. All models with the next year.
- New standard requires passing flammable vapor ignition resistance test.

#### CANDLE PRODUCTS

- >10,000 fires, 120 deaths in 1996
- ASTM Subcommittee for new voluntary
- Labeling task force drafted guidelines I Awaiting Subcommittee ballot
- Test requirements being developed I Glass Breakage, Sooting, Lead (Pb), Aeromatics

#### FIRE SPRINKLERS

- Omega Recall 1998
- Two year project started 10/98
- Assess basic product designs/reliability
- Collect field data
- Codes Assessment Product Standards Assessment
- Product Design Assessment
- Limited Testing
- Industry consortium

### OTHER CPSC ACTIVITIES

- Clothes Dryers: >15,000 fires, gas and electric, related to lint accumulation and improper venting. Conducted tests. Starting discussion to improve vol. stds.
- Fixed-Position Electric Room Heaters: >2300 fires. Conducting tests, evaluating
- Smoke Alarms: Research program planned. Evaluate performance.